

CONSTRUCTION COST ESTIMATE BREAKDOWN

CONTRACTOR:		ADDRESS	
		TOTAL MATERIAL COST	\$ -
		TOTAL LABOR COST	\$ -
		SUBTOTAL	\$ -
		SALES TAX 6.25%	\$ -
		MARK-UP MATERIAL SUPPLY 20.00%	\$ -
		OVERHEAD & PROFIT 20.00%	\$ -
		BONDING	\$ -
		CONTINGENCY / WASTAGE 5.00%	\$ -
		PROPOSED PROJECT AMOUNT	\$ -
		TOTAL MANHOURS	

DATE : 02-July-2022	PROJECT 21ST STREET MIXED USED DEVELOPMENT	SCOPE OF WORK PLUMBING & FIRE SUPPRESSION	PROJECT LOCATION #29-10 21ST STREET LIC, NY 11102
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LINE NO.	DWG REF./ CSI SEC.	ITEM DESCRIPTION	UNIT OF MEASURE	QUANTITY	MATERIAL		LABOR				LINE TOTAL	TRADE TOTAL
					UNIT PRICE	TOTAL COST	UNIT LABOR HOUR	LABOR HOURS	LABOR RATE	TOTAL COST		
	DIV. 023	PLUMBING										
		WATER HEATER										
1		WH-1, GAS FIRED WATER HEATER, 100 GALNS. STORAGE CAPACITY, 178 GPH RECOVERY RATE, MFR: AO SMITH, MDL: CYCLONE MXI MODULATING CONDENSING BTH-150(A)	EA	1								
2		IWH, GAS FIRED INSTANT. WATER HEATER, CAPACITY: 5.8 GPM @ 60F TEMP RISE, MFR: RHEEM, MDL: PRESTIGE RTGH-RH10DV	EA	28								
3		EW-1, ELECTRIC TANKLESS WATER HEATER, 4.8KW, MFR: EEMAX, MDL: SP48SL	EA	1								
4		EW-2, ELECTRIC TANKLESS WATER HEATER, 4.8KW, MFR: EEMAX, MDL: SP48SL	EA	1								
5		ET-1, THERMAL EXPANSION TANK, 5 GALNS. TANK VOL., MFR: WILKINS-ZURN CO., MDL: WTTA-12	EA	1								
		PUMP & INTERCEPTOR										
6		DBP-1, DOMESTIC WATER DUPLEX VARIABLE SPEED BOOSTER PUMP, CAPACITY: (2)60 GPM, (2)1.5HP, 3450 RPM, MFR: FEDERAL PUMP CO., MDL: VSPS-6020-2	EA	1								
7		SP-1, SUBMERSIBLE SIMPLEX SUMP PUMP, CAPACITY: 50 GPM, 20' DISCHARGE HEAD, MFR: FEDERAL PUMP, MDL: 2P-1/2-4	EA	1								
8		LINT INTERCEPTOR IN CONCRETE PAD, ZURN MODEL Z1185 (17"L x 17"W x 16.5"H)	EA	1								
		UTILITY METERS										
9		1" Dia Sub-Meter, Spire-Enduroflow Series EF10, Flow Meter, Clamp-On Transducer, MDL: TWC-6-HFO	EA	1								
10		1" Dia Sub-Meter, Spire-Enduroflow Series EF10, Flow Meter, Clamp-On Transducer, MDL: TWC-HF	EA	1								
11		3" Dia Domestic Water Meter	EA	1								
12		1-1/4" Dia Utility Gas Meter, 150 CFH	EA	1								
13		1-1/4" Dia Utility Gas Meter, 255 CFH	EA	28								
		PLUMBING FIXTURES										
14		P-1, WATER CLOSET (TANK TYPE)	EA	28								
15		P-1B, WATER CLOSET (FLUSH VALVE)	EA	2								
16		P-2, LAVATORY W/ FAUCET	EA	30								
17		P-3, BATHTUB W/ SHOWER HEAD	EA	28								
18		P-4, KITCHEN SINK W/ FAUCET	EA	28								
19		P-5, SERVICE SINK	EA	1								
20		NFWH, AUTOMATIC DRAINING FREEZELESS WALL HYDRANT	EA	1								
21		WM, WASHING MACHINE BOX	EA	1								
22		3/4" Dia Hose Bibb W/ Vacuum Breaker	EA	9								
		DRAINS & CLEANOUTS										

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		OVERHEAD & PROFIT 20.00%	\$ -
		BONDING	\$ -
		CONTINGENCY / WASTAGE 5.00%	\$ -
		PROPOSED PROJECT AMOUNT	\$ -
		TOTAL MANHOURS	

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					UNIT PRICE	TOTAL COST	UNIT LABOR HOUR	LABOR HOURS	LABOR RATE	TOTAL COST		
23		3" Dia Floor Drain	EA	30								
24		4" Dia Floor Drain	EA	13								
25		4" Dia Funnel Drain	EA	3								
26		4" Dia Roof Drain	EA	7								
27		4" Dia Overflow Drain	EA	7								
28		3" Dia Balcony Drain	EA	16								
29		3" Dia Scupper Drain	EA	2								
30		3" Dia Cleanout	EA	16								
31		4" Dia Cleanout	EA	67								
32		6" Dia Cleanout	EA	4								

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					UNIT PRICE	TOTAL COST	UNIT LABOR HOUR	LABOR HOURS	LABOR RATE	TOTAL COST		
		VALVES										
33		3/4" Dia Gate Valve	EA	149								
34		2" Dia Gate Valve	EA	5								
35		2-1/2" Dia Gate Valve	EA	1								
36		3" Dia Gate Valve	EA	4								
37		3/4" Dia Check Valve	EA	29								
38		2" Dia Check Valve	EA	1								
39		3" Dia Check Valve	EA	2								
40		1/2" Dia Ball Valve	EA	56								
41		3/4" Dia Ball Valve	EA	56								
42		3/4" Dia Balancing Valve	EA	28								
43		3/4" Dia Mixing Valve, Delta MDL:"1748"	EA	28								
44		3/4" Dia Gas Plug Valve	EA	28								
45		1" Dia Gas Plug Valve	EA	28								
46		1-1/4" Dia Gas Plug Valve	EA	88								
47		3" Dia Curb Valve In Box	EA	1								
48		3" Dia HCV, House Control Valve	EA	1								
49		3" Dia MICV, Meter Inlet Control Valve	EA	1								
50		3" Dia MOCV, Meter Outlet Control Valve	EA	1								
51		3" Dia RPZ, Pressure Reducing Valve	EA	1								
52		6" Dia Gas Curb Valve In Box	EA	1								
53		6" Dia Sanitary House Trap In Concrete Pit	EA	1								
54		6" Dia Storm House Trap In Concrete Pit	EA	1								
55		6" Dia Gas Service Shutoff Valve	EA	1								
		VENT THRU ROOF										
56		4" Dia VTR	EA	4								
		TRENCHING										
57		Trenching Excavation & Backfill	CFT	564								
		MISC.										
58		1-1/2" Cap	EA	1								
59		2" Capped Test Tee	EA	1								
60		Insect Screen	EA	1								
61		Splash Block	EA	2								
62		Watertight Sleeve	EA	1								
		PIPING, INSULATION, FITTINGS & SUPPORTS										
		COLD WATER PIPE										
		TYPE "L" HARD COPPER										

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		MARK-UP MATERIAL SUPPLY 20.00%	\$ -
		OVERHEAD & PROFIT 20.00%	\$ -
		BONDING	\$ -
		CONTINGENCY / WASTAGE 5.00%	\$ -
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					UNIT PRICE	TOTAL COST	UNIT LABOR HOUR	LABOR HOURS	LABOR RATE	TOTAL COST		
63		1/2" Dia Cold Water Pipe	FT	576								
64		3/4" Dia Cold Water Pipe	FT	1823								
65		1" Dia Cold Water Pipe	FT	64								
66		1-1/4" Dia Cold Water Pipe	FT	69								
67		1-1/2" Dia Cold Water Pipe	FT	89								
68		2" Dia Cold Water Pipe	FT	174								
69		2-1/2" Dia Cold Water Pipe	FT	82								
70		3" Dia Cold Water Pipe	FT	139								
		INSULATION										
		1/2" DIA FIBERGLASS INSULATION W/ VAPOR BARRIER JACKET										
71		1/2" Dia Cold Water Pipe	FT	576								
72		3/4" Dia Cold Water Pipe	FT	1823								
73		1" Dia Cold Water Pipe	FT	64								
74		1-1/4" Dia Cold Water Pipe	FT	69								
75		1-1/2" Dia Cold Water Pipe	FT	89								
76		2" Dia Cold Water Pipe	FT	174								
77		2-1/2" Dia Cold Water Pipe	FT	82								
78		3" Dia Cold Water Pipe	FT	68								
		COLD WATER PIPE FITTINGS										
		ELBOW										
79		1/2" Dia Cold Water Pipe 90 Deg Elbow	EA	108								
80		3/4" Dia Cold Water Pipe 90 Deg Elbow	EA	343								
81		1" Dia Cold Water Pipe 90 Deg Elbow	EA	14								
82		1-1/4" Dia Cold Water Pipe 90 Deg Elbow	EA	8								
83		1-1/2" Dia Cold Water Pipe 90 Deg Elbow	EA	12								
84		2" Dia Cold Water Pipe 90 Deg Elbow	EA	23								
85		2-1/2" Dia Cold Water Pipe 90 Deg Elbow	EA	16								
86		3" Dia Cold Water Pipe 90 Deg Elbow	EA	15								
		TEE										
87		1/2" Dia Cold Water Pipe Tee	EA	35								
88		3/4" Dia Cold Water Pipe Tee	EA	115								
89		3/4" / 1/2" Dia Cold Water Pipe Tee	EA	45								
90		1" / 3/4" Dia Cold Water Pipe Tee	EA	6								
91		1-1/4" / 3/4" Dia Cold Water Pipe Tee	EA	6								
92		1-1/2" / 3/4" Dia Cold Water Pipe Tee	EA	8								
93		2" / 3/4" Dia Cold Water Pipe Tee	EA	10								
94		2-1/2" / 3/4" Dia Cold Water Pipe Tee	EA	6								
95		2" / 1-1/2" Dia Cold Water Pipe Tee	EA	3								
96		2-1/2" / 1-1/2" Dia Cold Water Pipe Tee	EA	2								
97		3" Dia Cold Water Pipe Tee	EA	4								

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		OVERHEAD & PROFIT 20.00%	\$ -
		BONDING	\$ -
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					UNIT PRICE	TOTAL COST	UNIT LABOR HOUR	LABOR HOURS	LABOR RATE	TOTAL COST		
		REDUCER										
98		3/4" / 1/2" Dia Cold Water Pipe Reducer	EA	30								
99		3" / 2-1/2" Dia Cold Water Pipe Reducer	EA	1								
		HOT WATER PIPE										
		COPPER TYPE "L" HARD TEMPER										
100		1/2" Dia Hot Water Pipe	FT	302								
101		3/4" Dia Hot Water Pipe	FT	1533								
102		1" Dia Hot Water Pipe	FT	26								
		INSULATION										
		1" DIA FIBERGLASS INSULATION W/ VAPOR BARRIER JACKET										
103		1/2" Dia Hot Water Pipe	FT	302								
104		3/4" Dia Hot Water Pipe	FT	1533								
105		1" Dia Hot Water Pipe	FT	26								
		HOT WATER PIPE FITTINGS										
		ELBOW										
106		1/2" Dia Hot Water Pipe 90 Deg Elbow	EA	54								
107		3/4" Dia Hot Water Pipe 90 Deg Elbow	EA	276								
108		1" Dia Hot Water Pipe 90 Deg Elbow	EA	6								
		TEE										
109		1/2" Dia Hot Water Pipe Tee	EA	12								
110		3/4" / 1/2" Dia Hot Water Pipe Tee	EA	36								
111		3/4" Dia Hot Water Pipe Tee	EA	32								
112		1" / 3/4" Dia Hot Water Pipe Tee	EA	2								
		REDUCER										
113		3/4" / 1/2" Dia Hot Water Pipe Reducer	EA	28								
		HOT WATER RETURN PIPE										
		COPPER TYPE "L" HARD TEMPER										
114		3/4" Dia Hot Water Return Pipe	FT	1055								
		INSULATION										
		1" DIA FIBERGLASS INSULATION W/ VAPOR BARRIER JACKET										
115		3/4" Dia Hot Water Return Pipe	FT	1055								
		HOT WATER PIPE FITTINGS										
		ELBOW										
116		3/4" Dia Hot Water Return Pipe 90 Deg Elbow	EA	154								
		TEE										

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		MARK-UP MATERIAL SUPPLY 20.00%	\$ -
		OVERHEAD & PROFIT 20.00%	\$ -
		BONDING	\$ -
		CONTINGENCY / WASTAGE 5.00%	\$ -
		PROPOSED PROJECT AMOUNT	\$ -
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117		3/4" Dia Hot Water Return Pipe Tee	EA	56								
		SANITARY PIPE										
		SERVICE WEIGHT CAST IRON HUB AND SPIGOT SOIL PIPE										
118		2" Dia Sanitary Pipe	FT	365								
119		3" Dia Sanitary Pipe	FT	224								
120		4" Dia Sanitary Pipe	FT	1270								
121		6" Dia Sanitary Pipe	FT	60								
122		8" Dia Sanitary Pipe	FT	29								
		SANITARY PIPE FITTINGS										
		ELBOW										
123		2" Dia Sanitary Pipe 45 Deg Elbow	EA	65								
124		2" Dia Sanitary Pipe 90 Deg Elbow	EA	52								
125		3" Dia Sanitary Pipe 45 Deg Elbow	EA	48								
126		3" Dia Sanitary Pipe 90 Deg Elbow	EA	15								
127		4" Dia Sanitary Pipe 45 Deg Elbow	EA	211								
128		4" Dia Sanitary Pipe 90 Deg Elbow	EA	19								
129		6" Dia Sanitary Pipe 45 Deg Elbow	EA	14								
130		8" Dia Sanitary Pipe 45 Deg Elbow	EA	4								
		WYE										
131		2" Dia Sanitary Pipe Wye	EA	25								
132		3"/2" Dia Sanitary Pipe Wye	EA	4								
133		3" Dia Sanitary Pipe Wye	EA	12								
134		4"/3" Dia Sanitary Pipe Wye	EA	8								
135		4" Dia Sanitary Pipe Wye	EA	94								
136		6"/4" Dia Sanitary Pipe Wye	EA	4								
137		6" Dia Sanitary Pipe Wye	EA	2								
138		8"/6" Dia Sanitary Pipe Wye	EA	2								
		REDUCER										
139		3"/2" Dia Sanitary Pipe Reducer	EA	4								
140		6"/4" Dia Sanitary Pipe Reducer	EA	2								
		VENT PIPE										
		SERVICE WEIGHT CAST IRON HUB AND SPIGOT SOIL PIPE										
141		1-1/2" Dia Vent Pipe	FT	996								
142		2" Dia Vent Pipe	FT	796								
143		2-1/2" Dia Vent Pipe	FT	177								
144		3" Dia Vent Pipe	FT	140								
145		4" Dia Vent Pipe	FT	856								
		VENT PIPE FITTINGS										

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		OVERHEAD & PROFIT 20.00%	\$ -
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ELBOW												
146		1-1/2" Dia Vent Pipe 90 Deg Elbow	EA	145								
147		2" Dia Vent Pipe 90 Deg Elbow	EA	113								
148		2-1/2" Dia Vent Pipe 90 Deg Elbow	EA	36								
149		3" Dia Vent Pipe 90 Deg Elbow	EA	22								
150		4" Dia Vent Pipe 90 Deg Elbow	EA	164								
TEE												
151		1-1/2" Dia Vent Pipe Tee	EA	32								
152		2" / 1-1/2" Dia Vent Pipe Tee	EA	112								
153		2" Dia Vent Pipe Tee	EA	86								
154		2-1/2" / 2" Dia Vent Pipe Tee	EA	38								
155		3" / 1-1/2" Dia Vent Pipe Tee	EA	14								
156		4" / 2-1/2" Dia Vent Pipe Tee	EA	35								
157		4"/3" Dia Vent Pipe Tee	EA	12								
158		4" Dia Vent Pipe Tee	EA	8								
REDUCER												
159		3"/2" Dia Vent Pipe Reducer	EA	2								
160		4" / 2-1/2" Dia Vent Pipe Reducer	EA	6								
STORM PIPE												
DWV WROUGHT COPPER												
161		3" Dia Storm Pipe	FT	80								
162		4" Dia Storm Pipe	FT	266								
163		6" Dia Storm Pipe	FT	87								

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		STORM PIPE FITTINGS										
		ELBOW										
164		3" Dia Storm Pipe 45 Deg Elbow	EA	32								
165		3" Dia Storm Pipe 90 Deg Elbow	EA	16								
166		4" Dia Storm Pipe 45 Deg Elbow	EA	25								
167		6" Dia Storm Pipe 45 Deg Elbow	EA	12								
		WYE										
168		3" Dia Storm Pipe Wye	EA	16								
169		4"/3" Dia Storm Pipe Wye	EA	16								
170		4" Dia Storm Pipe Wye	EA	14								
171		6"/4" Dia Storm Pipe Wye	EA	5								
		OVERFLOW DRAIN PIPE										
		DWV WROUGHT COPPER										
172		4" Dia Overflow Drain Pipe	FT	89								
		OVERFLOW DRAIN PIPE FITTINGS										
		ELBOW										
173		4" Dia Overflow Drain Pipe 90 Deg Elbow	EA	15								
		RAIN LEADER PIPE										
		DWV WROUGHT COPPER										
174		3" Dia Rain Leader Pipe	FT	40								
175		4" Dia Rain Leader Pipe	FT	280								
		RAIN LEADER PIPE FITTINGS										
		ELBOW										
176		3" Dia Rain Leader Pipe 45 Deg Elbow	EA	6								
177		3" Dia Rain Leader Pipe 90 Deg Elbow	EA	6								
178		4" Dia Rain Leader Pipe 45 Deg Elbow	EA	30								
179		4" Dia Rain Leader Pipe 90 Deg Elbow	EA	28								
		WYE										
180		3" Dia Rain Leader Pipe Wye	EA	2								
181		4"/3" Dia Rain Leader Pipe Wye	EA	16								
182		4" Dia Rain Leader Pipe Wye	EA	28								
		GAS RUBBER PIPE										
183		3/4" Dia Gas Rubber Pipe	FT	140								
		GAS PIPE										
		STANDARD WEIGHT SCH 40 BLACK STEEL										
184		3/4" Dia Gas Pipe	FT	870								
185		1" Dia Gas Pipe	FT	146								

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186		1-1/4" Dia Gas Pipe	FT	2289								
187		6" Dia Gas Pipe	FT	27								
		GAS PIPE FITTINGS										
		ELBOW										
188		3/4" Dia Gas Pipe 90 Deg Elbow	EA	161								
189		1" Dia Gas Pipe 90 Deg Elbow	EA	68								
190		1-1/4" Dia Gas Pipe 90 Deg Elbow	EA	426								
191		6" Dia Gas Pipe 90 Deg Elbow	EA	8								
		TEE										
192		1-1/4" / 1" Dia Gas Pipe Tee	EA	28								
193		1-1/4" Dia Gas Pipe Tee	EA	83								
194		6" / 1-1/4" Dia Gas Pipe Tee	EA	15								
		REDUCER										
195		1" / 3/4" Dia Gas Pipe Reducer	EA	30								
		PIPE SUPPORT										
196		1/2" Dia Adjustable Clevis Hanger	EA	146								
197		3/4" Dia Adjustable Clevis Hanger	EA	880								
198		1" Dia Adjustable Clevis Hanger	EA	39								
199		1-1/4" Dia Adjustable Clevis Hanger	EA	393								
200		1-1/2" Dia Adjustable Clevis Hanger	EA	181								
201		2" Dia Adjustable Clevis Hanger	EA	223								
202		2-1/2" Dia Adjustable Clevis Hanger	EA	43								
203		3" Dia Adjustable Clevis Hanger	EA	104								
204		4" Dia Adjustable Clevis Hanger	EA	276								
205		3/8" Dia Threaded Rod (1 Ea = 1 FT)	EA	1640								
206		5/8" Dia Threaded Rod (1 Ea = 1 FT)	EA	646								